IIE Transactions (2007) **39**, 1143–1159

DESIGN & MANUFACTURING

AUTHOR INDEX FOR 2007

Chiang, W.-C., P. Kouvelis and T.L. Urban; *Line balancing in a just-in-time production environment: balancing multiple U-lines*; April; 347

Diamantidis, A.C., C.T. Papadopoulos and C. Heavey; *Approximate analysis of serial flow lines with multiple parallel-machine stations*; April; 361

Glenn, D.W. and K.D. Majeske; *A hybrid tool buy-off decision policy for automotive sheet metal stamping dies*; April; 335

Heavey, C., A.C. Diamantidis and C.T. Papadopoulos; *Approximate analysis of serial flow lines with multiple parallel-machine stations*; April; 361

Joshi, S., M. Masin and M.O. Pasaogullari; *Dynamic scheduling of production-assembly networks in a distributed environment*; April; 395

Kouvelis, P., W.-C. Chiang and T.L. Urban; *Line balancing in a just-in-time production environment: balancing multiple U-lines*; April; 347

Liu, Q. and R.D. Meller; *A sequence-pair representation and MIP-model-based heuristic for the facility layout problem with rectangular departments*; April; 377

Majeske, K.D. and D.W. Glenn; *A hybrid tool buy-off decision policy for automotive sheet metal stamping dies*; April; 335

Masin, M., M.O. Pasaogullari and S. Joshi; *Dynamic scheduling of production-assembly networks in a distributed environment*; April; 395

Meller, R.D. and Q. Liu; *A sequence-pair representation and MIP-model-based heuristic for the facility layout problem with rectangular departments*; April; 377

Papadopoulos, C.T., A.C. Diamantidis and C. Heavey; *Approximate analysis of serial flow lines with multiple parallel-machine stations*; April; 361

Pasaogullari, M.O., M. Masin and S. Joshi; *Dynamic scheduling of production-assembly networks in a distributed environment*; April; 395

Urban, T.L., W.-C. Chiang and P. Kouvelis; *Line balancing in a just-in-time production environment: balancing multiple U-lines*; April; 347

KEYWORDS INDEX FOR 2007

assembly line balancing, 347
assembly, 395
auto industry, 335

decomposition method, 361
distributed algorithms, 395

facilities planning and design, 347
facility layout, 377
flow/production lines, 361

heuristic, 377

job shop, 395
just-in-time, 347

manufacturing process development, 335
Markovian analysis, 361
mixed-integer programming, 377
multicriteria decision making, 335

new product development, 335

parallel-machine stations, 361
performance evaluation, 361
production, 347

scheduling, 395
sequence-pair representation, 377
sheet metal stamping, 335

unequal-area departments, 377

REFEREES FOR 2007

Ivo Adan, Eindhoven University of Technology, Eindhoven, The Netherlands
G. Aiello, University of Palermo, Italy
Pamela Ajoku, University of Pittsburgh
Ali Akgunduz, Concordia University, Canada
Henk Akkermans, Tilburg University, The Netherlands
Selim Akturk, Bilkent University, Turkey
Tayfur Altiok, Rutgers University, New Brunswick, New Jersey
Ardavan Asef-Vaziri, California State University, Northridge, California
Ron Askin, Arizona State University
Hayriye Ayhan, Georgia Institute of Technology, Atlanta, Georgia
Rajan Batta, University at Buffalo (SUNY)
Pelin Bayindir, Middle Eastern Technical University, Turkey
Adil Baykasoglu, University of Gaziantep, Gaziantep, Turkey
Stefan Bock, University of Wuppertal, Wuppertal, Germany
Yavuz A. Bozer, University of Michigan, Ann Arbor, Michigan
Jirachai Buddhakulsomsiri, University of Michigan, Dearborn, Michigan
Yossi Bukchin, Tel Aviv University, Israel
Satish T. Bukkapatnam, Oklahoma State University, Stillwater, Oklahoma

0740-817X © 2007 "IIE"

John Buzacott, York University, Canada

Ignacio Castillo, Wilfred Laurier University
Yong Chen, University of Iowa, Ames, Iowa
Lin-Lin Chen, National Taiwan University of Science & Technology, Taipei, Taiwan
Lijian Chen, University of Louisville, Louisville, Kentucky
Rachel Chen, University of California, Davis
Raymond Cheung, Hong Kong University of Science & Technology, Kowloon, Hong Kong
Jane Chin-Chia, National Tsing Hua University, Taiwan
Alok Choudhary, Loughborough University (England)
Chih-Hsing Chu, National Tsing Hua University, Hsinchu, Taiwan
Frederico Cruz, Universidade Federal de Minas Gerais, Brazil

Stephane Dauzère-Pérès, Ecole des Mines de Saint-Etienne
Rene de Koster, Erasmus University, The Netherlands
Francis de Vericourt, Duke University, Durham, North Carolina
Rommert Dekker, Erasmus University, The Netherlands
Gail DePuy, University of Louisville
Maria DiMascolo, Laboratoire d' Automatique de Grenoble, France
Ken Doerr, Naval Postgraduate School

Moran Elnekave, Technion, Israel Institute of Tecnology, Haifa, Israel
Murat Erkoc, University of Miami

Murat Fadiloglu, Bilkent University, Turkey
Richard Feldman, Texas A&M University
Geraldo Ferrer, Naval Postgraduate School
John Fowler, Arizona State University, Tempe, Arizona
Kai Furmans, University of Karlsruhe, IFL

Saul Gass, University of Maryland
Gary Gaukler, Texas A&M University
Esma Gel, Arizona State University
Yigal Gerchak, Tel Aviv University, Israel
Wendell Gilland, University of North Carolina, Chapel Hill, North Carolina
Marc Goetschalckx, Georgia Institute of Technology
Abhijit Gosavi, State University of New York at Buffalo, New York
Mikell Groover, Lehigh University, Bethlehem, Pennsylvania

Yongpei Guan, University of Oklahoma, Norman, Oklahoma
Kevin Gue, Auburn University, Alabama
Refik Gullu, Bogazici University, Istanbul, Turkey
Cigdem Z. Gurgur, Colorado School of Mines, Golden, Colorado

Steven Hackman, Georgia Institute of Technology
Warren Hausman, Stanford University
Stefan Helber, University of Hannover, Hannover, Germany
Sunderesh Heragu, University of Louisville, Louisville, Kentucky
Yale Herer, Technion, Israel Institute of Tecnology, Haifa, Israel
Thom Hodgson, North Carolina State University, Raleigh, North Carolina
Yoo-Suk Hong, Seoul National University, Seoul, Korea
Yushin Hong, Pohang University of Science and Technology, Pohang, South Korea
Max-Olivier Hongler, Ecole Polytechnique Fédérale de Lausanne, Switzerland
Jiang-Liang Hou, National Tsing Hua University, Hsinchu, Taiwan
Wenzhen Huang, University of Massachussets, Dartmouth

George Iaonnou, Athens University of Economics and Business, Athens, Greece
Seyed Iravani, Northwestern University, Evanston, Illinois

Angus Jeang, Feng Chia University, Taichung, Taiwan

William C. Jordan, General Motors, Detroit, Michigan

Fikri Karaesmen, Koç University, Turkey
Kap Hwan Kim, Pusan National University, Pusan, S. Korea
David Kim, Oregon State University
Ad Kock, Eindhoven University of Technology (Holland)
Vassilis Kouikoglou, Technical University of Crete, Chania, Greece
Ananth Krishnamurthy, Rennsselaer Polytechnic Institute, Troy, New York
Heinrich Kuhn, Catholic University of Eichstatt-Ingolstadt, Germany

Martin Land, University of Groningen, The Netherlands
Seungyong Lee, Pohang University of Science & Technology
Tae-Eog Lee, Korea Advanced Institute of Science and Technology
Shiwoo Lee, Oregon State University
Jingshan Li, University of Kentucky, Lexington, Kentucky
Catherine J.R. Li, Nanyang Technological University, Singapore
George Liberopoulos, University of Thessaly, Volos, Greece
Joaquim Armengol Llobet, Universitat de Girona, Catalonia, Spain

Roland Malhame, Polytechnique Montreal, Canada
Riccardo Manzini, University of Bologna, Italy
Stephen Mahar, Indiana University
Johan Marklund, Lund University, Lund, Sweden
Andrea Matta, Poltecnico di Milano, Italy
Leon McGinnis, Georgia Institute of Technology
Timothy Middelkoop, University of Massachussets
John Miltenburg, McMaster University, Hamilton, Ontario, Canada
Stefan Minner, University of Mannheim, Schloss, Mannheim, Germany
Hubert Missbauer, University of Innsbruck, Austria

Rakesh Nagi, University at Buffalo (SUNY)
Dima Nazzal, University of Central Florida
Charles E. Noon, University of Tennessee, Knoxville, Tennessee
Bryan Norman, University of Pittsburgh
Tava Lennon Olsen, Washington University, St. Louis, MO
Suleyman Ozekici, Koc University, Turkey
Chrissoleon Papadopoulos, Aristotle University of Thessaloniki, Greece
Pratik Parikh, Manhattan Associates
B.C. Park, Keimyung University, Taegu, Korea
Qingjin Peng, University of Manitoba, Canada
Brett Peters, Texas A&M University, College Station, Texas
Edieal Pinker, University of Rochester
Kishore Pochampally, Southern New Hampshire University
Tish Pohl, University of Arkansas, Fayetteville, Arkansas
Iztok Potrc, University of Maribor, Slovenia

Jose Emmanuel Ramirez-Marquez, Stevens Institute of Technology, Hoboken, New Jersey
Kees Jan Roodbergen, Erasmus University, Rotterdam, The Netherlands
Manuel Rossetti, University of Arkansas, Fayetteville, Arkansas
Christopher Rump, Bowling Green State University, Bowling Green, Ohio
Sarah M. Ryan, Iowa State University, Ames, Iowa

Kumar Satyam, Rensselaer Polytechnic University
Can Saygin, University of Texas at San Antonio
Irvin C. Schick, Massachussets Institute of Technology
Armin Scholl, Friedrich-Schiller-University Jena, Germany
Gunter Sharp, Georgia Institute of Technology
Hayong Shin, Korea Advanced Institute of Science & Technology, South Korea
Shoval Shraga, Technion, Israel Institute of Tecnology, Haifa, Israel
Edward A. Silver, University of Calgary, Canada

David Sinreich, Technion, Israel Institute of Tecnology, Haifa, Israel
Alice Smith, Auburn University
Tim Smunt, Wake Forest University, Winston-Salem, North Carolina
Joel Sokol, Georgia Institute of Technology
Svenja Sommer, Purdue University, LaFayette, Indiana
Gilvan Souza, University of Maryland
Raj Srinivasan, University of Saskatchewan, Saskatoon, Canada
Sriram Subramanian, Georgia Institute of Technology
Baris Tan, Koc University, Turkey
Geo-Ry Tang, National Taiwan University of Science & Technology
Kai Tang, Hong Kong University of Science & Technology, Hong Kong
Horst Tempelmeier, University of Cologne, Köln, Germany
Tullio Tolio, Poltecnico di Milano, Italy
Brian Tomlin, University of North Carolina, Chapel Hill

Reha Uzsoy, Purdue University

Pirroz Vakili, Boston University
Geert-Jan van Houtum, Technican University of Eindhoven, Eindhoven, The Netherlands
Mark Van Oyen, University of Michigan
Tom Van Woensel, Technical University of Eindhoven, The Netherlands
Nico Vandaele, University of Antwerp, Belgium
Mario Vanhoucke, Ghent University, Ghent, Belgium
Jose Ventura, Pennsylvania State University
Iris Vis, Vrije Universiteit Amsterdam

Roger Warburton, Boston University
Zhang Wu, Nanyang Technological University (Singapore)

Ali Yalcin, University of Southern Florida, Tampa, Florida
Jian Yang, New Jersey Institute of Technology
Ruey Huei Yeh, National Taiwan University of Science and Technology, Taipei, Taiwan
Jae Jang Young, Micron Technology
Mengfei Yu, RSM, Erasmus University Rotterdam, The Netherlands
Yugang Yu, Erasmus University, The Netherlands

Romulo Zequeira, École Polytechnique Fédérale de Lausanne, Switzerland
James Zhenyu Zhang, Mercer Management Consulting
Yong-Pin Zhou, University of Washington, Seattle, Washington

SCHEDULING & LOGISTICS

AUTHOR INDEX FOR 2007

Banerjee, A., J.E. Carrillo and A. Paul; *Projects with sequential iteration: Models and complexity*; May; 453

Berman, O., R. Huang, S. Kim and M.B.C. Menezes; *Locating capacitated facilities to maximize captured demand*; November; 1015

Bradley, J.R., K. Hoberg and U.W. Thonemann; *Analyzing the effect of inventory policies on the nonstationary performance with transfer functions*; September; 911

Burnetas, A., S.M. Gilbert and C.E. Smith; *Quantity discounts in single-period supply contracts with asymmetric demand information*; May; 465

Candas, M.F. and E. Kutanoglu; *Benefits of considering inventory in service parts logistics network design problems with time-based service constraints*; February; 159

Carrillo, J.E., A. Banerjee and A. Paul; *Projects with sequential iteration: Models and complexity*; May; 453

Cattrysse, D., H. Wong and D. Van Oudheusden; *Two-echelon multi-item spare parts systems with emergency supply flexibility and waiting time constraints*; November; 1045

Chand, S., V.N. Hsu, S. Sethi and V. Deshpande; *A dynamic lot sizing problem with multiple customers: customer-specific shipping and backlogging costs*; November; 1059

Chen, F. and M. Parlar; *Value of a put option to the risk-averse newsvendor*; May; 481

Chen, G. and Z.-J.M. Shen; *Probabilistic asymptotic analysis of stochastic online scheduling problems*; May; 525

Dawande, M., H.N. Geismar and C. Sriskandarajah; *A (10/7)-approximation algorithm for an optimum cyclic solution in additive travel-time robotic cells*; February; 217

Deshpande, V., S. Chand, V.N. Hsu and S. Sethi; *A dynamic lot sizing problem with multiple customers: customer-specific shipping and backlogging costs*; November; 1059

Ding, Q., P. Kouvelis and J.M. Milner; *Dynamic pricing for multiple class deterministic demand fulfillment*; November; 997

Duran, S., T. Liu, D. Simchi-Levi and J.L. Swann; *Optimal production and inventory policies of priority and price-differentiated customers*; September; 845

Ekşioğlu, B., S.D. Ekşioğlu and H.E. Romeijn; *A Lagrangean heuristic for integrated production and transportation planning problems in a dynamic, multi-item, two-layer supply chain*; February; 191

Ekşioğlu, S.D., B. Ekşioğlu and H.E. Romeijn; *A Lagrangean heuristic for integrated production and transportation planning problems in a dynamic, multi-item, two-layer supply chain*; February; 191

Geismar, H.N., M. Dawande and C. Sriskandarajah; *A (10/7)-approximation algorithm for an optimum cyclic solution in additive travel-time robotic cells*; February; 217

Gel, E.S., W.J. Hopp and M.P. Van Oyen; *Hierarchical cross-training in work-in-process-constrained systems*; February; 125

Geunes, J. and B. Yang; *Inventory and lead time planning with lead-time-sensitive demand*; May; 439

Gilbert, S.M., A. Burnetas and C.E. Smith; *Quantity discounts in single-period supply contracts with asymmetric demand information*; May; 465

Hoberg, K., U.W. Thonemann and J.R. Bradley; *Analyzing the effect of inventory policies on the nonstationary performance with transfer functions*; September; 911

Hopp, W.J., E.S. Gel and M.P. Van Oyen; *Hierarchical cross-training in work-in-process-constrained systems*; February; 125

Hsu, V.N., S. Chand, S. Sethi and V. Deshpande; *A dynamic lot sizing problem with multiple customers: customer-specific shipping and backlogging costs*; November; 1059

Huang, R., O. Berman, S. Kim and M.B.C. Menezes; *Locating capacitated facilities to maximize captured demand*; November; 1015

Jackson, P., S. Zhou, R.O. Roundy and R.Q. Zhang; *The evolution of family level sales forecasts into product level forecasts: Modeling and estimation*; September; 831

Jemaï, Z. and F. Karaesmen; *Decentralized inventory control in a two-stage capacitated supply chain*; May; 501

Jin, F., S. Song and C. Wu; *An improved version of the NEH algorithm and its application to large-scale flow-shop scheduling problems*; February; 229

Karaesmen, F. and Z. Jemaï; *Decentralized inventory control in a two-stage capacitated supply chain*; May; 501

Kaspi, M., D. Shabtay and G. Steiner; *The no-wait two-machine flow shop scheduling problem with convex resource-dependent processing times*; May; 539

Kim, S., O. Berman, R. Huang and M.B.C. Menezes; *Locating capacitated facilities to maximize captured demand*; November; 1015

Koulamas, C. and G.J. Kyparisis; *A note on performance guarantees for sequencing three-stage flexible flowshops with identical machines to minimize makespan*; May; 559

Kouvelis, P., Q. Ding and J.M. Milner; *Dynamic pricing for multiple class deterministic demand fulfillment*; November; 997

Koçağa, Y.L. and A. Şen; *Spare parts inventory management with demand lead times and rationing*; September; 879

Kutanoglu, E. and M.F. Candas; *Benefits of considering inventory in service parts logistics network design problems with time-based service constraints*; February; 159

Kyparisis, G.J. and C. Koulamas; *A note on performance guarantees for sequencing three-stage flexible flowshops with identical machines to minimize makespan*; May; 559

Li, C.-L. and G. Vairaktarakis; *Coordinating production and distribution of jobs with bundling operations*; February; 203

Li, C.-L. and J. Ou; *Coordinated scheduling of customer orders with decentralized machine locations*; September; 899

Li, Q.; *Risk, risk aversion and the optimal time to produce*; February; 145

Li, Y., A. Lim and B. Rodrigues; *Global sourcing using local content tariff rules*; May; 425

Lim, A., Y. Li and B. Rodrigues; *Global sourcing using local content tariff rules*; May; 425

Liu, T., S. Duran, D. Simchi-Levi and J.L. Swann; *Optimal production and inventory policies of priority and price-differentiated customers*; September; 845

Lu, X., J.-S. Song and A. Regan; *Rebate, returns and price protection policies in channel coordination*; February; 111

Maheshwari, N. and H. Üster; *Strategic network design for multi-zone truckload shipments*; February; 177
Marianov, V. and C. Obreque; *An optimal procedure for solving the hierarchical network design problem*; May; 513
Menezes, M.B.C., O. Berman, R. Huang and S. Kim; *Locating capacitated facilities to maximize captured demand*; November; 1015
Milner, J.M., Q. Ding and P. Kouvelis; *Dynamic pricing for multiple class deterministic demand fulfillment*; November; 997
Mishra, B.K., S. Raghunathan and X. Yue; *Information sharing in supply chains: Incentives for information distortion*; September; 863

Obreque, C. and V. Marianov; *An optimal procedure for solving the hierarchical network design problem*; May; 513
Ou, J. and C.-L. Li; *Coordinated scheduling of customer orders with decentralized machine locations*; September; 899
Ozsen, L., K. Sourirajan and R. Uzsoy; *A single-product network design model with lead time and safety stock considerations*; May; 411

Parlar, M. and F. Chen; *Value of a put option to the risk-averse newsvendor*; May; 481
Paul, A., A. Banerjee and J.E. Carrillo; *Projects with sequential iteration: Models and complexity*; May; 453

Raghunathan, S., B.K. Mishra and X. Yue; *Information sharing in supply chains: Incentives for information distortion*; September; 863
Regan, A., X. Lu and J.-S. Song; *Rebate, returns and price protection policies in channel coordination*; February; 111
Rodrigues, B., Y. Li and A. Lim; *Global sourcing using local content tariff rules*; May; 425
Romeijn, H.E. and F.Z. Sargut; *Capacitated production and subcontracting in a serial supply chain*; November; 1031
Romeijn, H.E., S.D. Ekşioğlu and B. Ekşioğlu; *A Lagrangean heuristic for integrated production and transportation planning problems in a dynamic, multi-item, two-layer supply chain*; February; 191
Roundy, R.O., S. Zhou, P. Jackson and R.Q. Zhang; *The evolution of family level sales forecasts into product level forecasts: Modeling and estimation*; September; 831

Sargut, F.Z. and H.E. Romeijn; *Capacitated production and subcontracting in a serial supply chain*; November; 1031
Şen, A. and Y.L. Koçağa; *Spare parts inventory management with demand lead times and rationing*; September; 879
Sethi, S., S. Chand, V.N. Hsu and V. Deshpande; *A dynamic lot sizing problem with multiple customers: customer-specific shipping and backlogging costs*; November; 1059
Shabtay, D., M. Kaspi and G. Steiner; *The no-wait two-machine flow shop scheduling problem with convex resource-dependent processing times*; May; 539
Shen, Z.-J.M. and G. Chen; *Probabilistic asymptotic analysis of stochastic online scheduling problems*; May; 525
Simchi-Levi, D., S. Duran, T. Liu and J.L. Swann; *Optimal production and inventory policies of priority and price-differentiated customers*; September; 845
Smith, C.E., A. Burnetas and S.M. Gilbert; *Quantity discounts in single-period supply contracts with asymmetric demand information*; May; 465
Song, J.-S., X. Lu and A. Regan; *Rebate, returns and price protection policies in channel coordination*; February; 111
Song, S., F. Jin and C. Wu; *An improved version of the NEH algorithm and its application to large-scale flow-shop scheduling problems*; February; 229
Sourirajan, K., L. Ozsen and R. Uzsoy; *A single-product network design model with lead time and safety stock considerations*; May; 411
Sriskandarajah, C., H.N. Geismar and M. Dawande; *A (10/7)-approximation algorithm for an optimum cyclic solution in additive travel-time robotic cells*; February; 217
Steiner, G., D. Shabtay and M. Kaspi; *The no-wait two-machine flow shop scheduling problem with convex resource-dependent processing times*; May; 539
Swann, J.L., S. Duran, T. Liu and D. Simchi-Levi; *Optimal production and inventory policies of priority and price-differentiated customers*; September; 845

Thonemann, U.W., K. Hoberg and J.R. Bradley; *Analyzing the effect of inventory policies on the nonstationary performance with transfer functions*; September; 911

Üster, H. and N. Maheshwari; *Strategic network design for multi-zone truckload shipments*; February; 177
Uzsoy, R., K. Sourirajan and L. Ozsen; *A single-product network design model with lead time and safety stock considerations*; May; 411

Vairaktarakis, G. and C.-L. Li; *Coordinating production and distribution of jobs with bundling operations*; February; 203
Van Oyen, M.P., E.S. Gel and W.J. Hopp; *Hierarchical cross-training in work-in-process-constrained systems*; February; 125
Van Oudheusden, D., H. Wong, and D. Cattrysse; *Two-echelon multi-item spare parts systems with emergency supply flexibility and waiting time constraints*; November; 1045

Wong, H., D. Van Oudheusden and D. Cattrysse; *Two-echelon multi-item spare parts systems with emergency supply flexibility and waiting time constraints*; November; 1045
Wu, C., F. Jin and S. Song; *An improved version of the NEH algorithm and its application to large-scale flow-shop scheduling problems*; February; 229

Yang, B. and J. Geunes; *Inventory and lead time planning with lead-time-sensitive demand*; May; 439
Yue, X., B.K. Mishra and S. Raghunathan; *Information sharing in supply chains: Incentives for information distortion*; September; 863

Zhang, R.Q., S. Zhou, P. Jackson and R.O. Roundy; *The evolution of family level sales forecasts into product level forecasts: Modeling and estimation*; September; 831
Zhou, S., P. Jackson, R.O. Roundy and R.Q. Zhang; *The evolution of family level sales forecasts into product level forecasts: Modeling and estimation*; September; 831

KEYWORDS INDEX FOR 2007

approximation algorithms, 217, 559
asymmetric information, 465
asymptotic performance ratio, 525

block property, 229
bundling operations, 203

channel coordination policies, 111
channel coordination, 465
channels of distribution, 465
congestion, 411, 1015
control theory, 911
convex resource consumption function, 539

coordination, 203, 439, 899
customer differentiation, 845
cyclic solutions, 217

decentralized inventory management, 501
deliveries, 899
demand lead time, 879
disaggregation, 831
discounting, 997
distribution, 203
dynamic lot sizing model, 1059
dynamic programming, 1031, 1059

economic order quantity, 997
emergency supply, 1045

facility location, 159
fixed-charge cost, 191
flexible flowshop, 559
flow shop scheduling, 539
flow-shop scheduling problem, 229
forecast evolution, 831
forecast horizon, 1059
forecasting, 831, 863
free trade agreement, 425

global sourcing, 425

heuristic, 1045
heuristics, 177, 899
hierarchical cross-training, 125
hierarchical network design problem, 513

information sharing, 863
integer programming, 159, 513
inventory allocation, 997
inventory control, 439
inventory management, 159, 879
inventory policy, 845
inventory, 145, 1045

Lagrangean decomposition, 191
Lagrangian relaxation, 411
lead times, 439
local content, 425
location, 1015
location-inventory model, 411
logistics network design, 159

make-to-stock queue, 501
Martingale, 831
multi-commodity network flow, 191
multiechelon inventory control, 911
multiple class, 997
multiple customers, 1059

NEH algorithm, 229
network design, 177
new product development, 453
newsvendor model, 481
no-wait, 539
nonstationary performance, 911

on-line scheduling, 525
optimization, 1015

parallel machines, 559
polynomial-time approximation schemes, 203
price differentiated, 845
priority differentiated, 845
problem reduction, 513
procurement planning, 439
production planning, 191
project management, 453
put option, 481

queueing, 1015

rationing, 879
release time, 525
risk aversion, 145
risk, 145
robotic cells, 217

scheduling, 203, 559, 899
sequential iteration, 453
series-parallel graph, 539
service level, 411
service parts logistics, 159
shortest path containing a node or an arc, 513
spare parts, 879, 1045
stochastic dominance, 481
stochastic production/inventory systems, 501
stochastic, 525
subcontracting, 1031
supply chain management, 145, 465, 911
supply chain, 191
supply chains, 863

tabu search, 177
tactical inventory, 845
tariff, 425
threshold policies, 845
timing, 145
total weighted completion time, 525
truckload shipments, 177
TSP on k-root cost matrices, 539
two-class, 845
two-echelon lot sizing, 1031
two-echelon, 1045
two-period model, 111

win-win outcome, 111
workforce agility, 125
worksharing, 125
worst-case analysis, 899

REFEREES FOR 2007

Alessandro Agnetis, Universita di Siena, Italy
Elif Akcali, University of Florida
Osman Alp, Bilkent University, Turkey
Aydin Alptekinoglu, University of Florida
Arif Anwar, University of Southampton, United Kingdom
Ardavan Asef-Vaziri, California State University, Northridge
Sven Axsater, Lund University, Sweden
Goker Aydin, University of Michigan—Ann Arbor
Haldun Aytug, University of Florida

Alok Baveja, Rutgers University
Pelin Bayindir, Middle East Technical University, Turkey
Murat Bayiz, University of Southern California
Damien Beil, University of Michigan—Ann Arbor
Emre Berk, Bilkent University, Turkey
Fernando Bernstein, Duke University
Luca Bertazzi, Universita Degli Studi Di Brescia, Italy
Ebru Bish, Virginia Polytechnic Institute and State University
Tamer Boyaci, McGill University
Kerem Bulbul, Sabanci University, Turkey
Apostolos Burnetas, University of Athens, Greece

Xiaoqiang Cai, Chinese University of Hong Kong
Janice Carrillo, University of Florida
Emilio Carrizosa, Universidad de Sevilla, Spain
F.T.S. Chan, University of Hong Kong
Rachel Chen, University of California at Davis
Xin Chen, University of Illinois
Youhua Frank Chen, Chinese University of Hong Kong
Zhi-Long Chen, University of Maryland
Chun-Hung Cheng, Chinese University of Hong Kong
Mabel Chou, National University of Singapore
William Cooper, University of Minnesota

Maqbool Dada, Purdue University
Milind Dawande, University of Texas at Dallas
Meltem Denizel, Sabanci University, Turkey
Vinayak Deshpande, Purdue University
Maged Dessouky, University of Southern California
Moshe Dror, University of Arizona
Elizabeth Durango-Cohen, Illinois Institute of Technology

Ozlem Ergun, Georgia Institute of Technology
Feryal Erhun, Stanford University
Nesim Erkip, Bilkent University, Turkey
Murat Erkoc, University of Miami

Qi Feng, University of Texas at Austin
Mark E. Ferguson, Georgia Institute of Technology
Michael Fry, University of Cincinnati

Srinagesh Gavirneni, Cornell University
Yigal Gerchak, Tel Aviv University, Israel
Joseph Geunes, University of Florida
Linguo Gong, Rutgers University, New Jersey
Abhijit Gosavi, State University of New York at Buffalo
Stephen Graves, Massachusetts Institute of Technology
Shanhong Gu, JP Morgan Chase
David He, University of Illinois at Chicago
Mark Hillier, University of Washington
Boray Huang, University of Mississippi
Simin Huang, Tsinghua University, China
Woonghee Tim Huh, Columbia University

Armann Ingolfsson, University of Alberta, Canada

Apurva Jain, University of Washington
Ganesh Janakiram, New York University
Fariborz Jolai, University of Tehran, Iran
Mohan Junna, University of Wyoming

Bahar Kara, Bilkent University, Turkey
Fikri Karaesman, Koc University, Turkey
Mark Karwan, University at Buffalo, New York
Adam Kasperski, Wroclaw Polytechnic, Poland
Pinar Keskinocak, Georgia Institute of Technology
Gudrun Kiesmuller, Technische Universiteit Eindhoven, The Netherlands
Anton Kleywegt, Georgia Institute of Technology
Andreas Klose, University of Zurich, Switzerland
Gurhan Kok, Duke University
Erhan Kutanoglu, University of Texas at Austin

Amy Lee, Chung Hua University, Taiwan
Chung-Yee Lee, Hong Kong University of Science and Technology
Shine-Der Lee, National Cheng Kung University, Taiwan
V. Jorge Leon, Texas A & M, College Station
Janny Leung, Chinese University of Hong Kong
Joseph Leung, New Jersey Institute of Technology
Retsef Levi, Massachusetts Institute of Technology
Yuri Levin, Queen's University, Canada
Eugene Levner, Holon Academic Institute of Technology, Israel
Chung-Lun Li, Hong Kong University of Science and Technology
Rong Li, Singapore Management University
Bertrand M.T. Lin, National Chiao Tung University, Taiwan
Kyle Lin, Naval Postgraduate School
Vladimir Marianov, Pontificia Universidad Católica de Chile
Scott Mason, University of Arkansas
William Millhauser, City University of New York
Ajay Mishra, Binghamton University
Julien Moncel, Laboratoire G-SCOP, Grenoble, France
Edward Mooney, Montana State University
David Morton, University of Texas at Austin
Ana Muriel, University of Massachusetts
Kumar Muthuraman, Purdue University

Hussein Naseraldin, University of Calgary
Serguei Netessine, University of Pennsylvania
Chi To Ng, Hong Kong Polytechnic University
Shun-Chen Niu, University of Texas at Dallas

Ceyda Oguz, Koc University, Turkey
Tava Olsen, Washington University in St. Louis
Daniel Oron, University of Sydney, Australia
Ammar Oulamara, Ecole des Mines de Nancy, France
Yanfeng Ouyang, University of Illinois at Urbana-Champaign
Suleyman Ozekici, Koc University, Turkey

Nicholas Petruzzi, University of Illinois
Marc Posner, Ohio State University

Lian Qi, University of Florida

Yaron Raviv, Claremont-McKenna College
Saibal Ray, McGill University, Canada
Giovanni Righini, Università degli Studi di Milano, Italy
Larry Robinson, Cornell University
Brian C. Rodrigues, Singapore Management University

Edwin Romeijn, University of Florida
Dolores Romero-Morales, University of Oxford, United Kingdom
Jennifer Ryan, University College Dublin, Ireland

Ilhan Sabuncuoglu, Bilkent University, Turkey
Kristin Sahyouni, Northwestern University
Canan Savaskan, Northwestern University
Alan Scheller-Wolf, Carnegie Mellon University
Sridhar Seshadri, New York University
Natalia Shakhlevich, University of Leeds, United Kingdom
Z.-J. Max Shen, University of California at Berkeley
Stephen Shum, Hong Kong University of Science and Technology
Susan Slotnick, Cleveland State University, Ohio
Larry Snyder, Lehigh University
Rick So, University of California at Irvine
Svenja Sommer, Purdue University
Jeannette Song, Duke University
Karthik Sourirajan, IBM
Francis Sourd, Universite' Pierre et Marie Curie, Paris, France
Gilvan Souza, University of Maryland
Refik Soyer, George Washington University
Mandyam Srinivasan, University of Tennessee
Chelliah Sriskandarajah, University of Texas at Dallas
Frits C.R. Spieksma, Katholieke Universiteit Leuven, Belgium
Effie Stavrulaki, Bentley College, Massachusetts
Richard Steinberg, Cambridge University
Peng Sun, Duke University
Julie Swann, Georgia Institute of Technology

Robert Tamastik, Pratt and Whitney
Baris Tan, Koc University, Turkey
Tarkan Tan, Technische Universiteit Eindhoven, Netherlands
Ruud Teunter, Lancaster University Management School, United Kingdom
Doug Thomas, Pennsylvania State University
Ronald Tibben-Lembke, University of Nevada, Reno
Brian Tomlin, University of North Carolina
Ayten Turkan, Middle East Technical University, Ankara, Turkey

Halit Uster, Texas A&M University

George L. Vairaktarakis, Case Western Reserve University
Mark Van Oyen, University of Michigan
Mathieu Van Vyve, RALM Electrabel, Belgium
Senthil Veeraraghavan, University of Pennsylvania
Sushil Verma, Signal Demand, Inc.
Vedat Verter, McGill University, Canada

Guohua Wan, New York University
Tong Wang, INSEAD, France
Qian Wang, Chinese Academy of Sciences
Scott Webster, New York
Michael Weng, University of South Florida
Wilbert Wilhelm, Texas A&M University

Xiaowei Xu, Rutgers University
Yi Xu, University of Miami

Shuya Yin, University of California at Irvine
Xiaohang Yue, University of Wisconsin-Milwaukee
Banu Yuksel-Ozkaya, Georgia Institute of Technology

Rachel Zhang, Hong Kong University of Science and Technology
Yuanyuan Zhang, Chinese University of Petroleum at Beijing
Jiang Zheng, Adelphi University, New York
Shaohui Zheng, Hong Kong University of Science and Technology

OPERATIONS ENGINEERING

AUTHOR INDEX FOR 2007

Abraham, D.M., J. Qiao, D. Jeong, M. Lawley, J.-P.P. Richard and Y. Yih; *Allocating security resources to a water supply network*; January; 95

Altıok, T., B. Balcıoğlu and D.L. Jagerman; *Approximate mean waiting time in a GI/D/1 queue with autocorrelated times to failures*; October; 985

Atashgah, A.B. and A. Seifi; *Application of semi-definite programming to the design of multi-response experiments*; July; 763

Balcıoğlu, B., D.L. Jagerman and T. Altıok; *Approximate mean waiting time in a GI/D/1 queue with autocorrelated times to failures*; October; 985

Batta, R. and Q. Gong; *Allocation and reallocation of ambulances to casualty clusters in a disaster relief operation*; January; 27

Benjaafar, S. and M. Lahmar ; *Sequencing with limited flexibility*; October; 937

Beyeler, W., H.-S.J. Min, T. Brown, Y.J. Son and A.T. Jones; *Toward modeling and simulation of critical national infrastructure interdependencies*; January; 57

Brown, T., H.-S.J. Min, W. Beyeler, Y.J. Son and A.T. Jones; *Toward modeling and simulation of critical national infrastructure interdependencies*; January; 57

Brusco, M.J. and D. Steinley; *Exact and approximate algorithms for part-machine clustering based on a relationship between interval graphs and Robinson matrices*; October; 925

Chiu, W. and W.T. Song; *A five-class variance swapping rule for simulation experiments: A correlated-blocks design*; July; 713

Chiu, Y.-C., H. Zheng, J. Villalobos and B. Gautam; *Modeling no-notice mass evacuation using a dynamic traffic flow optimization model*; January; 83

Dessouky, M., H. Jia and F. Ooróñez; *A modeling framework for facility location of medical services for large-scale emergencies*; January; 41

Fathi, Y. and G. Kulkarni; *A very large scale neighborhood search algorithm for the q-mode problem*; October; 971

Gautam, B., Y.-C. Chiu, H. Zheng and J. Villalobos; *Modeling no-notice mass evacuation using a dynamic traffic flow optimization model*; January; 83

Gong, Q. and R. Batta; *Allocation and reallocation of ambulances to casualty clusters in a disaster relief operation*; January; 27

Hong, L.J. and B.L. Nelson; *Selecting the best system when systems are revealed sequentially*; July; 723

Jacobson, S.H., J.E. Kobza and E. Pohl; *Editors' introduction: special issue on homeland security*; January; 1

Jacobson, S.H., L.A. McLay and J.E. Kobza; *Integer programming models and analysis for a multilevel passenger screening problem*; January; 73

Jagerman, D.L., B. Balcıoğlu, and T. Altıok; *Approximate mean waiting time in a GI/D/1 queue with autocorrelated times to failures*; October; 985

Jeong, D., J. Qiao, M. Lawley, J.-P.P. Richard, D.M. Abraham and Y. Yih; *Allocating security resources to a water supply network*; January; 95

Jia, H., F. Ooróñez and M. Dessouky; *A modeling framework for facility location of medical services for large-scale emergencies*; January; 41

Jones, A.T., H.-S.J. Min, W. Beyeler, T. Brown and Y.J. Son; *Toward modeling and simulation of critical national infrastructure interdependencies*; January; 57

Klastorin, T. and G. Mitchell ; *An effective methodology for the stochastic project compression problem*; October; 957

Kobza, J.E., L.A. McLay and S.H. Jacobson; *Integer programming models and analysis for a multilevel passenger screening problem*; January; 73

Kobza, J.E., S.H. Jacobson and E. Pohl; *Editors' introduction: special issue on homeland security*; January; 1

Kulkarni, G. and Y. Fathi; *A very large scale neighborhood search algorithm for the q-mode problem*; October; 971

Kulturel-Konak, S., A.E. Smith and B.A. Norman; *Bi-objective facility expansion and relayout considering monuments*; July; 747

Lahmar, M. and S. Benjaafar; *Sequencing with limited flexibility*; October; 937

Lawley, M., J. Qiao, D. Jeong, J.-P.P. Richard, D.M. Abraham and Y. Yih; *Allocating security resources to a water supply network*; January; 95

Lim, C. and J.C. Smith; *Algorithms for discrete and continuous multicommodity flow network interdiction problems*; January; 15

McLay, L.A., S.H. Jacobson and J.E. Kobza; *Integer programming models and analysis for a multilevel passenger screening problem*; January; 73

Min, H.-S.J., W. Beyeler, T. Brown, Y.J. Son and A.T. Jones; *Toward modeling and simulation of critical national infrastructure interdependencies*; January; 57

Mitchell, G. and T. Klastorin; *An effective methodology for the stochastic project compression problem*; October; 957

Morton, D.P., F. Pan and K.J. Saeger; *Models for nuclear smuggling interdiction*; January; 3

Nelson, B.L. and L.J. Hong; *Selecting the best system when systems are revealed sequentially*; July; 723

Norman, B.A., S. Kulturel-Konak and A.E. Smith; *Bi-objective facility expansion and relayout considering monuments*; July; 747

Ooróñez, F., H. Jia and M. Dessouky; *A modeling framework for facility location of medical services for large-scale emergencies*; January; 41

Pan, F., D.P. Morton and K.J. Saeger; *Models for nuclear smuggling interdiction*; January; 3

Pohl, E., S.H. Jacobson and J.E. Kobza; *Editors' introduction: special issue on homeland security*; January; 1

Qiao, J., D. Jeong, M. Lawley, J.-P.P. Richard, D.M. Abraham and Y. Yih; *Allocating security resources to a water supply network*; January; 95

Richard, J.-P.P., J. Qiao, D. Jeong, M. Lawley, D.M. Abraham and Y. Yih; *Allocating security resources to a water supply network*; January; 95

Ruben, R.A., K.-K. Yang and S. Webster; *An evaluation of worker cross training and flexible workdays in job shops*; July; 735

Saeger, K.J., D.P. Morton and F. Pan; *Models for nuclear smuggling interdiction*; January; 3

Seifi, A. and A.B. Atashgah; *Application of semi-definite programming to the design of multi-response experiments*; July; 763

Smith, A.E., S. Kulturel-Konak and B.A. Norman; *Bi-objective facility expansion and relayout considering monuments*; July; 747

Smith, J.C. and C. Lim; *Algorithms for discrete and continuous multicommodity flow network interdiction problems*; January; 15

Son, Y.J., H.-S.J. Min, W. Beyeler, T. Brown and A.T. Jones; *Toward modeling and simulation of critical national infrastructure interdependencies*; January; 57

Song, W.T. and W. Chiu; *A five-class variance swapping rule for simulation experiments: A correlated-blocks design*; July; 713
Song, W.T.; *A finite-memory algorithm for estimating the variance of the sample mean*; July; 703
Steinley, D. and M.J. Brusco; *Exact and approximate algorithms for part-machine clustering based on a relationship between interval graphs and Robinson matrices*; October; 925

Villalobos, J., Y.-C. Chiu, H. Zheng and B. Gautam; *Modeling no-notice mass evacuation using a dynamic traffic flow optimization model*; January; 83

Webster, S., K.-K. Yang and R.A. Ruben; *An evaluation of worker cross training and flexible workdays in job shops*; July; 735

Yang, K.-K., S. Webster and R.A. Ruben; *An evaluation of worker cross training and flexible workdays in job shops*; July; 735
Yih, Y., J. Qiao, D. Jeong, M. Lawley, J.-P.P. Richard and D.M. Abraham; *Allocating security resources to a water supply network*; January; 95

Zheng, H.,Y.-C. Chiu, J. Villalobos and B. Gautam; *Modeling no-notice mass evacuation using a dynamic traffic flow optimization model*; January; 83

KEYWORDS INDEX FOR 2007

2^k factorial designs* correlated blocks, 713
$GI/D/1$ queues with unreliable server, 985

ambulance allocation, 27
ambulance reallocation, 27
autocorrelation, 985
automotive industry, 937
aviation security, 73

batch means estimators, 703
bi-objective unequal-area facility re-layout problem, 747
bilinear programming, 15
branch and bound, 925

cell transmission model, 83
cellular manufacturing, 925
cluster analysis, 971
cluster, 27
consequence mitigation, 95
covering problem, 41
critical infrastructure, 57

data mining, 971
disaster planning, 95
discrete optimization, 73
disruption evaluation, 57
dynamic programming, 925
dynamic traffic assignment, 83

emergency management, 83

facility expansion, 747
facility layout, 925
facility location, 41
feature assignment, 937
fixed departments, 747
flexibility, 937

homelands, 73

IDEF, 57
integer programming, 3, 15, 73
interval graphs, 925

job shop scheduling, 735

large-scale emergency, 41
linear programming, 83
local search/local improvement, 971

makespan, 27
mass evacuation, 83
mean squared error, 703
mean waiting time, 985
metamodel, 713
monuments, 747
multi-response D-optimal designs, 763
multi-response linear models, 763
multicommodity flows, 15

network interdiction, 3, 15
no-notice, 83

optimization via simulation, 723

pareto front, 747
P-center, 41
P-median, 41
process completion time, 985
project management, 957
project scheduling, 957

ranking and selection, 723
Robinson matrix, 925

semi-definite programming, 763
sequencing, 937
shop floor control, 735
simulation, 713, 735
stochastic compression/crashing, 957
stochastic programming, 3
system design, 723
system dynamics, 57

tabu search, 747
time-cost trade-offs, 957
traveling salesman problem, 937

variance of the sample mean, 703
variance swapping rules, 713
vulnerability assessment, 95

water distribution, 95
weighted total flow time, 27
workforce scheduling, 735

REFEREES FOR 2007

Nicole Adler, Hebrew University
Hyunsoo Ahn, University of Michigan
Elif Akcali, University of Florida
Unit Akinc, Wake Forest University
Zeynep Aksin, Koc University
Dionne Aleman, University of Toronto
Nilay Argon, University of North Carolina, Chapel Hill
Ron Askin, Arizona State University

Baris Balcioglu, University of Toronto
Hillel Bar-Gera, Ben Gurion University
Melike Baykal-Gursoy, Rutgers University
Emre Berk, Bilkent University
Vivek Bhise, University of Michigan-Dearborn
Ebru Bish, Virginia Polytechnic Institute and State University
Juergen Branke, Karlsruhe University, Germany
Howard Burkom, Johns Hopkins University

Emilio Carrizosa, University of Sevilla
Mehmet Ceyhan, Northeastern University
Rachel Chen, University of California at Davis
Victoria Chen, University of Texas – Arlington
Russell Cheng, University of Southampton, U.K.
Izik Cohen, Technion
Yuval Cohen, Open University, Israel
David Coit, Rutgers University
Wade Cook, York University
Murray Cote, University of Colorado, Denver

Po-Ching Delaurentis, Purdue University
Brian Denton, Mayo Clinic
Jatamitra Desai, University of Arizona
Maged Dessouky, University of Southern California
Sharma Dushyant, University of Michigan

Fred Easton, Syracuse University
Ozlem Ergun, Georgia Institute of Technology
Feryal Erhun, Stanford University

Mark Ferguson, Georgia Institute of Technology

Qiang Gong, United Airlines
Scott Grassman, University of Missouri-Rolla
Linda Green, Columbia University
Evrim Gunes, Bikent University
Diwakar Gupta, University of Minnesota

Joseph Hartman, Leigh University
Willy Herroelen, Catholic University Leuven
Allen Holder, Trinity University
Jeff Hong, Hong Kong University of Science and Technology

Armann Ingolfsson, University of Alberta
Mark Isken, Oakland University
Julie Ivy, North Carolina State University

Michael Jackson, University of Washington
Tim Jacobs, American Airlines
Sheldon Jacobson, University of Illinois
Patrick Jalliet, Massachusetts Institute of Technology

Jeong In-Jun, Pohang University of Science and Technology, Korea
Mingzhou Jin, Mississippi State University

Frank Kaminsky, University of Massachusetts
George Kardomateas, Georgia Institute of Technology
David Kaufman, University of Pittsburgh
Burak Kazaz, University of Miami
Eda Ziya Kemahlioglu, University of North Carolina, Chapel Hill
Seong-Hee Kim, Georgia Institute of Technology
Seongmoon Kim, Yonsei School of Business, Korea
Eser Kirkizlar, Georgia Institute of Technology
Georgia-Ann Klutke, Texas A&M University
Rainer Kolisch, Technische Universitat Munchen
Michael Kuhl, Rochester Institute of Technology
Mary Kurz, Clemson University

Mehdi Lamiri, Ecole Nat Superieure des Mines de Saint-Etienne
Gilbert Laporte, University of Montreal
Michael Leonard, Mercer University
Mark Lewis, Cornell University
Jing Li, University of Michigan
Liming Liu, Hong Kong Polytechnic University
Yung-wen Liu, University of Michigan
Peter Lucas, Radboud University Nijmegen, The Netherlands

Charles Macal, Argonne National Laboratory
Paolo Magni, Università di Pavia, Italy
Idriss Maoui, Lehman Brothers
Melike Meterelliyoz, Georgia Institute of Technology
Robert Meyer, University of Wisconsin
Elise Miller-Hooks, University of Maryland
Ajay Mishra, Binghampton University

Brian Nathanson, OptiStatim
Barry Nelson, Northwestern University

Liam O'Neill, University of Iowa
Elissa Ozanne, Massachusetts General Hospital

Patrick Philipoom, University of South Carolina
Edieal Pinker, University of Rochester
Elmira Popova, University of Teas at Austin
Martin Puterman, University of British Columbia

Donna Retzlaff-Roberts, University of South Alabama
Spyros Reveliotis, Georgia Institute of Technology
Tom Rohleder, University of Calgary
Ling Rothrock, Pennsylvania State University
John Ruggerio, University of Dayton

Romesh Saigal, University of Michigan
Secil Savasaneril, Middle East Technical University
Sergei Savin, Columbia University
Andrew Schaefer, University of Pittsburgh
Andrew Seila, University of Georgia
Sergey Shabalov, United Airlines
David Sinreich, Technion Israel Institute of Technology, Israel
Jannes Slomp, University of Groningen
Karen Smilowitz, Northwestern University
Cole Smith, University of Florida
Joel Sokol, Georgia Institute of Technology
Ross Sparks, Macquarie University, Australia

David Spiegelhalter, University of Cambridge, United Kingdom
Frits Spieksma, Catholic University of Leuven, Belgium
Natalie Steiger, University of Maine
Aysun Sunnetci, Northeastern University
Julie Swann, Georgia Tech

Eylem Tekin, Texas A&M University
Sean Townsend, Brown University School of Medicine
Ali Tuncel, Purdue University

Onur Ulgen, University of Michigan-Dearborn
Martin Utley, UCL London
Reha Uzsoy, North Carolina State University

Emre Veral, City University of New York

Michael Washington, Center for Disease Control
Lawrence Wein, MIT
Thomas Willemain, Rensselaer Polytechnic Institute
Harvey Wolfe, University of Pittsburgh
Vincent Wu, National Kaohsiung First University of Science and Technology, Taiwan

Soumaya Yacout, Ecole Polytechnique de Montreal, Canada
Enver Yucesan, INSEAD, France

Joe Zhu, Worcester Polytechnic University
Secil Ziya, University of North Carolina, Chapel Hill

QUALITY & RELIABILITY ENGINEERING

AUTHOR INDEX FOR 2007

Agarwal, M. and R. Gupta; *Homogeneous redundancy optimization in multi-state series-parallel systems: A heuristic approach*; March; 277
Albin, S. and H. Zhang; *Determining the number of operational modes in baseline multivariate SPC data*; December; 1103
Albin, S.L., I.-G. Chong and C.-H. Jun; *A data mining approach to process optimization without an explicit quality function*; August; 795
Alexopoulos, C., S.-H. Kim, K.-L. Tsui and J.R. Wilson; *A distribution-free tabular CUSUM chart for autocorrelated data*; March; 317
Apley, D.W. and F. Zhang; *Identifying and visualizing nonlinear variation patterns in multivariate manufacturing data*; June; 691
Au, T., W. Jiang and K.-L. Tsui; *A statistical process control approach to business activity monitoring*; March; 235

Bae, S.J., J.Y. Hwang and W. Kuo; *Yield prediction via spatial modeling of clustered defect counts across a wafer map*; December; 1073
Bolstad, W.M.; *Book Review: Introduction to Bayesian Statistics*; August; 829

Chan, N.H. and H.Y. Wong; *Data mining of resilience indicators*; June; 617
Chang, M.E., Z. Yang, V.C.P. Chen, T.E. Murphy and J.C.C. Tsai; *Mining and modeling for a metropolitan Atlanta ozone pollution decision-making framework*; June; 607
Chaudhuri, P., Kim, H., W.-Y. Loh, and Y.-S. Shih; *Visualizable and interpretable regression models with good prediction power*; June; 565
Chen, A. and Y.K. Chen; *Design of EWMA and CUSUM control charts subject to random shift sizes and quality impacts*; December; 1127
Chen, V.C.P., Z. Yang, M.E. Chang, T.E. Murphy and J.C.C. Tsai; *Mining and modeling for a metropolitan Atlanta ozone pollution decision-making framework*; June; 607
Chen, Y., P. Zantek and S. Li; *Detecting multiple special causes from multivariate data with applications to fault detection in manufacturing*; August; 771
Chen, Y.K. and A. Chen; *Design of EWMA and CUSUM control charts subject to random shift sizes and quality impacts*; December; 1127
Chong, I.-G., S.L. Albin and C.-H. Jun; *A data mining approach to process optimization without an explicit quality function*; August; 795
Choubey, S., Z. Li, S. Zhou and C. Sievenpiper; *Failure event prediction using the Cox proportional hazard model driven by frequent failure signatures*; March; 303

Dai, Y.-S. and G. Levitin; *Performance and reliability of a star topology grid service with data dependency and two types of failure*; August; 783
Ding, Y., Z. Li and S. Zhou; *Pattern matching for variation-source identification in manufacturing processes in the presence of unstructured noise*; March; 251
Djurdjanovic, D., J. Zhou, J. Ivy and J. Ni; *Integrated reconfiguration and age-based preventive maintenance decision making*; December; 1085
Djurdjanovic, D., Z. Yang and J. Ni; *Maintenance scheduling for a manufacturing system of machines with adjustable throughput*; December; 1111

Gebre, B.A. and J.E. Ramirez-Marquez; *Element substitution algorithm for general two-terminal network reliability analyses*; March; 265
Gupta, R. and M. Agarwal; *Homogeneous redundancy optimization in multi-state series-parallel systems: A heuristic approach*; March; 277

Han, J., J. Pei, H. Lu, S. Nishio, S. Tang and D. Yang; *H-Mine: Fast and space-preserving frequent pattern mining in large databases*; June; 593
Huang, H.-Z., M.J. Zuo and Z. Tian; *An efficient method for reliability evaluation of multistate networks given all minimal path vectors*; August; 811
Huang, H.-Z., Z.-J. Liu and D.N.P. Murthy; *Optimal reliability, warranty and price for new products*; August; 819
Hwang, J.Y., S.J. Bae and W. Kuo; *Yield prediction via spatial modeling of clustered defect counts across a wafer map*; December; 1073
Hwang, W., G. Runger and E. Tuv ; *Multivariate statistical process control with artificial contrasts*; June; 659
Ince, H. and T.B. Trafalis; *Kernel principal component analysis and support vector machines for stock price prediction*; June; 629

Ivy, J., J. Zhou, D. Djurdjanovic and J. Ni; *Integrated reconfiguration and age-based preventive maintenance decision making*; December; 1085

Jiang, W., F. Tsung, and Z. Zhou; *Applying manufacturing batch techniques to fraud detection with incomplete customer information*; June; 671
Jiang, W., T. Au and K.-L. Tsui; *A statistical process control approach to business activity monitoring*; March; 235
Joseph, V.R.; *Taguchi's approach to robust parameter design: A new perspective*; August; 805
Jun, C.-H., I.-G. Chong and S.L. Albin; *A data mining approach to process optimization without an explicit quality function*; August; 795

Kim, H., W.-Y. Loh, Y.-S. Shih and P. Chaudhuri; *Visualizable and interpretable regression models with good prediction power*; June; 565
Kim, S.-H., C. Alexopoulos, K.-L. Tsui and J.R. Wilson; *A distribution-free tabular CUSUM chart for autocorrelated data*; March; 317
Kuo, W., S.J. Bae and J.Y. Hwang; *Yield prediction via spatial modeling of clustered defect counts across a wafer map*; December; 1073
Levitin, G. and Y.-S. Dai; *Performance and reliability of a star topology grid service with data dependency and two types of failure* ; August; 783

Li, J. and J. Shi; *Knowledge discovery from observational data for process control using causal Bayesian networks*; June; 681
Li, S., P. Zantek and Y. Chen; *Detecting multiple special causes from multivariate data with applications to fault detection in manufacturing*; August; 771
Li, Z., S. Zhou and Y. Ding; *Pattern matching for variation-source identification in manufacturing processes in the presence of unstructured noise*; March; 251
Li, Z., S. Zhou, S. Choubey and C. Sievenpiper; *Failure event prediction using the Cox proportional hazard model driven by frequent failure signatures*; March; 303
Lin, D.K.J. and J.P. McDermott; *Quantile contours and multivariate density estimation for massive datasets via sequential convex hull peeling*; June; 581
Liu, P.-Y., S.-T. Tseng and F. Tsung; *Variable EWMA run-to-run controller for drifted processes*; March; 291
Liu, Z.-J., H.-Z. Huang and D.N.P. Murthy; *Optimal reliability, warranty and price for new products*; August; 819
Loh, W.-Y., H. Kim, Y.-S. Shih and P. Chaudhuri; *Visualizable and interpretable regression models with good prediction power*; June; 565
Lu, H., J. Pei, J. Han, S. Nishio, S. Tang and D. Yang; *H-Mine: Fast and space-preserving frequent pattern mining in large databases*; June; 593

McDermott, J.P. and D.K.J. Lin; *Quantile contours and multivariate density estimation for massive datasets via sequential convex hull peeling*; June; 581

Murphy, T.E., Z. Yang, V.C.P. Chen, M.E. Chang, and J.C.C. Tsai; *Mining and modeling for a metropolitan Atlanta ozone pollution decision-making framework*; June; 607
Murthy, D.N.P., H.-Z. Huang and Z.-J. Liu; *Optimal reliability, warranty and price for new products*; August; 819

Nachlas, J. Reviewed by P. Silva; *Reliability Engineering: Probabilistic Models and Maintenance Methods*; March; 331
Ni, J., J. Zhou, D. Djurdjanovic and J. Ivy; *Integrated reconfiguration and age-based preventive maintenance decision making*; December; 1085
Ni, J., Z. Yang and D. Djurdjanovic; *Maintenance scheduling for a manufacturing system of machines with adjustable throughput*; December; 1111
Nishio, S., J. Pei, J. Han, H. Lu, S. Tang and D. Yang; *H-Mine: Fast and space-preserving frequent pattern mining in large databases*; June; 593

Pei, J., J. Han, H. Lu, S. Nishio, S. Tang and D. Yang; *H-Mine: Fast and space-preserving frequent pattern mining in large databases*; June; 593

Ramirez-Marquez, J.E. and B.A. Gebre; *Element substitution algorithm for general two-terminal network reliability analyses*; March; 265
Reveliotis, S.A.; *Uncertainty management in optimal disassembly planning through learning-based strategies*; June; 645
Runger, G., W. Hwang, and E. Tuv; *Multivariate statistical process control with artificial contrasts*; June; 659

Shi, J. and J. Li; *Knowledge discovery from observational data for process control using causal Bayesian networks*; June; 681
Shih, Y.-S., H. Kim, Loh, W.-Y., and P. Chaudhuri; *Visualizable and interpretable regression models with good prediction power*; June; 565
Shin, H.W., and S.Y. Sohn; *Application of an EWMA combining technique to the prediction of currency exchange rates*; June; 639
Sievenpiper, C., Z. Li, S. Zhou and S. Choubey; *Failure event prediction using the Cox proportional hazard model driven by frequent failure signatures*; March; 303
Sohn, S.Y. and H.W. Shin; *Application of an EWMA combining technique to the prediction of currency exchange rates*; June; 639

Tang, S., J. Pei, J. Han, H. Lu, S. Nishio, and D. Yang; *H-Mine: Fast and space-preserving frequent pattern mining in large databases*; June; 593
Tian, Z., M.J. Zuo and H.-Z. Huang; *An efficient method for reliability evaluation of multistate networks given all minimal path vectors*; August; 811
Trafalis, T.B. and H. Ince; *Kernel principal component analysis and support vector machines for stock price prediction*; June; 629
Tsai, J.C.C., Z. Yang, V.C.P. Chen, M.E. Chang, and T.E. Murphy; *Mining and modeling for a metropolitan Atlanta ozone pollution decision-making framework*; June; 607
Tseng, S.-T., F. Tsung and P.-Y. Liu; *Variable EWMA run-to-run controller for drifted processes*; March; 291
Tsui, K.-L., S.-H. Kim, C. Alexopoulos and J.R. Wilson; *A distribution-free tabular CUSUM chart for autocorrelated data*; March; 317
Tsui, K.-L., W. Jiang and T. Au; *A statistical process control approach to business activity monitoring*; March; 235
Tsung, F., S.-T. Tseng and P.-Y. Liu; *Variable EWMA run-to-run controller for drifted processes*; March; 291
Tsung, F., Z. Zhou and W. Jiang; *Applying manufacturing batch techniques to fraud detection with incomplete customer information*; June; 671
Tuv, E., W. Hwang, and G. Runger; *Multivariate statistical process control with artificial contrasts*; June; 659

Wilson, J.R., S.-H. Kim, C. Alexopoulos and K.-L. Tsui; *A distribution-free tabular CUSUM chart for autocorrelated data*; March; 317
Wong, H.Y. and N.H. Chan; *Data mining of resilience indicators*; June; 617

Yang, D., J. Pei, J. Han, H. Lu, S. Nishio, and S. Tang; *H-Mine: Fast and space-preserving frequent pattern mining in large databases*; June; 593
Yang, Z., D. Djurdjanovic and J. Ni; *Maintenance scheduling for a manufacturing system of machines with adjustable throughput*; December; 1111
Yang, Z., V.C.P. Chen, M.E. Chang, T.E. Murphy and J.C.C. Tsai; *Mining and modeling for a metropolitan Atlanta ozone pollution decision-making framework*; June; 607

Zantek, P., S. Li and Y. Chen; *Detecting multiple special causes from multivariate data with applications to fault detection in manufacturing*; August; 771
Zhang, F. and D.W. Apley; *Identifying and visualizing nonlinear variation patterns in multivariate manufacturing data*; June; 691
Zhang, H. and S. Albin; *Determining the number of operational modes in baseline multivariate SPC data*; December; 1103
Zhou, J., D. Djurdjanovic, J. Ivy and J. Ni; *Integrated reconfiguration and age-based preventive maintenance decision making*; December; 1085
Zhou, S., Z. Li and Y. Ding; *Pattern matching for variation-source identification in manufacturing processes in the presence of unstructured noise*; March; 251
Zhou, S., Z. Li, S. Choubey and C. Sievenpiper; *Failure event prediction using the Cox proportional hazard model driven by frequent failure signatures*; March; 303
Zhou, Z., F. Tsung, and W. Jiang; *Applying manufacturing batch techniques to fraud detection with incomplete customer information*; June; 671
Zuo, M.J., Z. Tian and H.-Z. Huang; *An efficient method for reliability evaluation of multistate networks given all minimal path vectors*; August; 811

KEYWORDS INDEX FOR 2007

adjustment factor, 805
age-based preventive maintenance, 1085
autocorrelated data average run length, 317

batch library method, 671
Bayesian Model Averaging, 235
Bayesian network, 681
blind identification, 691

causal modeling, 681
churn detection, 235
classification tree, 617
classification, 659
clustering, 1103
combining, 639
control chart, 659
control chart design, 1127
cox proportional hazard model, 303
cumulative sales, 819
customer relationship management, 235
CUSUM chart, 1127

data depth, 581
data mining, 581, 607, 795, 1103
decision-making, 607
disassembly planning, 645

discrete event sequence, 303
distribution-free statistical methods, 317
drifted processes, 291

EWMA chart, 1127
EWMA, 235, 639
exchange rate, 639

failure event prediction, 303
failure signatures, 303
false alarm, 659
financial shocks, 617
financial time series, 629
forecasting, 629, 639
FP-tree, 593
fraud detection, 235
frequent pattern mining, 593
fuzzy scoring and resilience measures, 617

GARCH, 639
generalized linear models, 1073
genetic algorithm, 1111
grid system, 783

heuristic approach, 277

integrated production, 1085

kernel principal component analysis, 629
knowledge discovery, 681

LAD, 235

machine learning, 565
maintenance decision making, 1085
maintenance scheduling, 1111
maximum principle, 819
metamodeling, 607
minimal cut sets, 265
minimal path vectors, 811
multi-state reliability, 811
multi-state, 277
multi-way principal component analysis (MPCA), 671
multicollinearity, 795
multivariate exponentially weighted moving average, 771
multivariate process control, 771
multivariate statistical process control, 1103

negative binomial regression, 1073
network, 265
neural networks, 639
(neuro-)dynamic programming, 645
number of clusters, 1103

ozone pollution, 607

partial least squares (PLS), 795
patient rule induction method (PRIM), 795
permanent failures, 783
phase I, 1103
piecewise linear, 565
precedence constraints, 783
principal component analysis, 691
principal curves, 691
process control, 681
process optimization, 795
product recovery, 645

quadratic quality loss, 1127
quality engineering, 805
quantile contours, 581

random forest, 659
random shift, 1127
random walk, 639
reconfigurable manufactoring systems, 1085
recursive algorithm, 811
redundancy optimization, 277
regression tree, 565
regularization, 659
reinforcement learning, 645
reliability, 265, 819
rolling process, 681
run-to-run controller, 291

selection bias, 565
series-parallel system, 277
service reliability, 783
service time, 783
signal-to-noise ratio, 805
simulation-based optimization, 1111
spatial clustering, 1073
state-space models, 771
statistical pattern matching, 251
statistical process control, 317, 671, 691
statistical testing, 251
stochastic dynamic programming, 607
streaming data, 581
supervised learning, 659
support vector regression, 629

tabular CUSUM chart, 317
telecommunication industry, 671
throughput adjustments, 1111
transaction databases, 593
transient failures, 783
two-terminal networks, 811
two-terminal, 265

uncertainty management, 645
universal generating function, 783
unstructured noise, 251
urban airshed model, 607

variable EWMA controller, 291
variation patterns, 691
variation source identification, 251

wafer map, 1073
warranty cost, 819
warranty policy, 819

yield, 1073

zero-inflated Poisson regression, 1073